

SUBASSEMBLY FOR USE IN FIBER OPTIC COMMUNICATIONS

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ABSTRACT OF THE DISCLOSURE

10 A subassembly for use in fiber optic communications systems where multiple
optical fibers are used in either transmitting or receiving optical signals. The
subassembly is adapted for being mechanically and optically connected with a
ferrule supporting a set of optical communications fibers. The subassembly uses
a carrier assembly to support an optoelectronic device having a corresponding
set of photoactive components which are operative for either converting
15 photonic signals to electrical signals (in a receiver) or converting electrical
signals to photonic signals (in a transmitter). The subassembly includes a lens
and alignment frame having a set of guide pins and an array of lenses for
interfacing the fibers of the ferrule with the photoactive components of the
optoelectronic device on the carrier assembly. The carrier assembly may also
20 include signal processing devices and a circuit board having an edge connector
for removably connecting the subassembly with a computer or communications
system.

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